

ABSTRACT OF THE DISCLOSURE

Circuits have a certain function. A plurality of first registers are connected in series, and shift stored data to respective adjacent registers in sequence. A plurality of second registers are connected in series, and shift stored data to respective adjacent registers in sequence. The plurality of first and second registers are connected in one-to-one correspondence to a plurality of input terminals or to a plurality of output terminals. A first scan input terminal is formed at one end of the plurality of first series-connected registers, and a first scan output terminal is formed at the other end. A second scan input terminal is formed at one end of the plurality of second series-connected registers, and a second scan output terminal is formed at the other end. An operation control circuit controls operations of the circuits and the plurality of first and second registers.